

WHAT IS CLAIMED IS;

1. A self-tapping screw type fastener comprising: a first rod and a second rod which is screwed into and fastened to the first rod, has an external thread, and functions as a tapping screw, wherein the external thread of said second rod is screwed into a smooth prepared hole of said first rod with tapping an internal thread in the inner peripheral surface of the smooth prepared hole, thereby fastening said second rod to said first rod, said fastener being characterized in that

said second rod has a threaded shaft having said external thread and a smooth guide shaft projecting from the end of the threaded shaft coaxially with the threaded shaft;

the outer diameter of said smooth guide shaft is set to be smaller than the major diameter of said external thread and to be larger than the minor diameter of said external thread and the minor diameter of said internal thread so as to form a step at a connecting portion between said smooth guide shaft and said threaded shaft; and

the step of said smooth guide shaft is in contact with the nearest ridge of said internal thread relative to said smooth guide shaft, thereby preventing said second rod from getting loose.

2. A self-tapping screw type fastener as claimed in claim 1, being characterized in that said internal thread is formed by squeezing the inner peripheral surface into roots of said external thread by said tapping and crests of said internal thread are flatly crushed by root bottoms,

parallel to said axis, of said external thread, thereby preventing said second rod from getting loose.

3. A push rod to be used in a brake booster which boosts pedaling force exerted on a brake pedal to output the boosted  
5 force, said push rod comprising an output rod and an adjusting rod which is screwed into and fastened to said output rod, has an external thread, and functions as a tapping screw, wherein the external thread of said adjusting rod is screwed  
10 into a smooth prepared hole of said output rod with tapping an internal thread in the inner peripheral surface of the smooth prepared hole, thereby fastening said adjusting rod to said output rod and said push rod transmits the output of said brake booster to a brake master cylinder, said push rod being characterized in that

15 said adjusting rod has a threaded shaft having said external thread and a smooth guide shaft projecting from the end of the threaded shaft coaxially with the threaded shaft;

the outer diameter said smooth guide shaft is set to be smaller than the major diameter of said external thread  
20 and to be larger than the minor diameter of said external thread and the minor diameter of said internal thread so as to form a step at a connecting portion between said smooth guide shaft and said threaded shaft; and

the step of said smooth guide shaft is in contact with  
25 the nearest ridge of said internal thread relative to said smooth guide shaft, thereby preventing said adjusting rod from getting loose.

4. A push rod to be used in a brake booster which boosts

pedaling force exerted on a brake pedal to output the boosted force, said push rod comprising an output rod and an adjusting rod which is screwed into and fastened to said output rod, has an external thread, and functions as a tapping screw, 5 wherein the external thread of said adjusting rod is screwed into a smooth prepared hole of said output rod with tapping an internal thread in the inner peripheral surface of the smooth prepared hole, thereby fastening said adjusting rod to said output rod and said push rod transmits the output 10 of said brake booster to a brake master cylinder, said push rod being characterized in that

said internal thread is formed by squeezing the inner peripheral surface into roots of said external thread by said tapping and crests of said internal thread are flatly crushed 15 by root bottoms, parallel to said axis, of said external thread, thereby preventing said second rod from getting loose.